



PATENT  
Atty. Dkt. AMAT/5975.P1/CPI/COPPER/LB/PJS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:  
Chang, et al. §  
Serial No.: 10/634,662 § Group Art Unit: 1762  
Confirmation No.: 6355 §  
Filed: August 4, 2003 § Examiner: Wesley D. Markham  
For: Ruthenium Layer §  
Formation for Copper Film §  
Deposition §

MAIL STOP AMENDMENT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

CERTIFICATE OF MAILING 37 CFR 1.8	
I hereby certify that this correspondence is being deposited on May 23, 2005 with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.	
5/23/05 Date	<i>Kris R. 2005</i> Signature

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

The Applicants, and the Attorney who signs below on the basis of the information supplied by the inventor and the information in his file, submit herewith patents, publications, or other information of which they are aware, which may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR § 1.56.

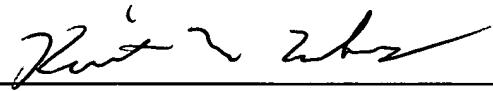
While the information submitted in this Supplemental Information Disclosure Statement may be material pursuant to 37 CFR § 1.56, it is not intended to constitute an admission that any patent, publication, or other information referred to therein is prior art for this invention unless specifically designated as such.

In accordance with 37 CFR § 1.97, this Supplemental Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other possibly material information as defined under 37 CFR § 1.56(a) exists.

The patents and/or publications submitted herewith are set forth on the attached Form PTO-1449.

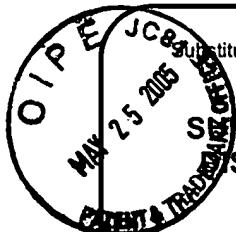
If the sum of \$180.00 is due under 37 CFR § 1.17(p) pursuant to § 1.97, the Commissioner is hereby authorized to charge this fee, and any other fee necessary to make this submission timely, to the Deposit Account No. 20-0782/AMAT/5975.P1/KMT.

Respectfully submitted,



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Substitute for form 1449A/PTO

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	1	Submission Date	May 23, 2005
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### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
A1	US-6887795		05/03/2005	SOININEN, ET AL.	
A2	US-6800937		10/05/2004	MARSH, ET AL.	
A3	US-6800542		10/05/2004	KIM	
A4	US-6780758		08/24/2004	DERDERIAN, ET AL.	
A5	US-6744138		06/01/2004	MARSH	
A6	US-6743739		06/01/2004	SHIMAMOTO, ET AL.	
A7	US-6737317		05/18/2004	MARSH, ET AL.	
A8	US-6627995		09/30/2003	PARANJPE, ET AL.	
A9	US-6596602		03/25/2003	RUESCHER, ET AL.	
A10	US-6576778		06/10/2003	UHLENBROCK, ET AL.	
A11	US-6541067		04/01/2003	MARSH, ET AL.	
A12	US-6517616		02/11/2003	MARSH, ET AL.	
A13	US-6338991		01/15/2002	ZHANG, ET AL.	
A14	US-6114557		09/05/2000	UHLENBROCK, ET AL.	
A15	US-20040241321		12/02/2004	GANGULI, ET AL.	
A16	US-20040105934		06/03/2004	CHANG, ET AL.	
A17	US-20040038529		02/26/2004	SOININEN, ET AL.	
A18	US-20040005753		01/08/2004	KOSTAMO, ET AL.	
A19	US-20030212285		11/13/2003	UHLENBROCK, ET AL.	

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
B1	WO 03/056612		07/10/2003	GENITECH CO., LTD.		

### NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	C1	International Search Report dated March 11, 2005 regarding International Application No. PCT/US2004/024805 (AMAT/5975PC02PCT)	

**Examiner**
**Date Considered**

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.